PETER HENDERSON

KW 19 (FIELDS 7-15)

KING WILLIAM COUNTY, VIRGINIA

MAY 2013



May 14, 2013

The state of the s

Mr. Seth Mullins Dept. of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Dear Mr. Mullins:

Transmitted herein for your consideration is land application site for Peter Henderson (designated as KW 19, (fields 7-15) located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

D. Steve McMahon

Sr. Technical Services Director

D. Stem mental

/cmw



FIELD SUMMARY SHEET

Peter Henderson KW 19

SYNAGRO	GROSS	NET	FSA	TOPO	
FIELD	ACRES	ACRES	TRACT	QUAD	OWNER
#			#		
7	75.2	75.2	986	New Kent	Edgewood Farms
8	15.9	15.2	986	New Kent	Edgewood Farms
9	56.8	53.8	986	New Kent	Edgewood Farms
10	105.5	102.0	986	New Kent	Edgewood Farms
11	48.2	45.6	986	New Kent	Peter Henderson
					Edgewood Farms
12	316.9	242.3		New Kent	Henderson Residential, LLC
					Peter Henderson
					Edgewood Farms
13	348.1	302.1		New Kent	Henderson Residential, LLC
					Peter Henderson
14	78.9	78.9	986	New Kent	Peter Henderson
15	56.2	54.1	986	New Kent	Peter Henderson
TOTALS:	1101.7	969.2			Revised 05-29-2013

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

here as "Landowner", and seterminated in writing by eith event of a sale of one or maidentified in this agreement	reement is made on 3-27 Synagro, referred to here as a per party or, with respect to the parcels, until ownership of changes, those parcels for waterial residuals under this agr	the "Permittee". This ag nose parcels that are reta of all parcels changes. If which ownership has cha	reement remains in ef lined by the Landown ownership of individu	fect until it is er in the al parcels
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real proper or reclamation sites identifie	ty located in <u>King Wil</u> d d below in Table 1 and id	Viam, Virginia, which dentified on the tax ma	ch includes ap(s)
Table 1.: Parcels aut	horized to receive biosolids,	water treatment residual	s or other industrial slu	adges
Tax Parcel ID	Tax Parcel ID	<u>Tax Parcel ID</u>	Tax Pa	rcel ID
55-32				
į.				
☐ Additional parcels containing Land				
Check one:	e Landowner is the sole own e Landowner is one of multip	er of the properties ident	ified herein.	
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall: 1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and 2. Notify the Permittee of the sale within two weeks following property transfer.				
The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.				
agricultural sites identified a inspections on the land ider purpose of determining com	nts permission to the Permitt above and in Exhibit A. The I atified above, before, during of apliance with regulatory requi r treatment residuals	Landowner also grants por after land application of trements applicable to su	ermission for DEQ sta f permitted residuals ch application.	aff to conduct for the
01 11 11		2110	7 Tes 11 No	
Landowner – Printed Name, Title	Signature	<u> </u>	Mailing Address Will	1/19015/2012
by the VPA Permit Regulation	s to apply biosolids and/or indus and in amounts not to exceed the person certified in accordance	ne rates identified in the nut	wner's land in the mann rient management plan I	er authorized
The Permittee agrees to notify	the Landowner or the Landown ar application to the Landowner	er's designee of the propos	ed schedule for land app	olication and to be applied.
☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)				e a copy of this
D. Steve McMahan 1). Stund Wash 10647 Tidewater Trail Champlain, VA 22438				
Permittee – Authorized Representative Signature Mailing Address Printed Name				

Rev 9/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro	County or City: King William
Landowner: Peter V. Henderson	

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids:
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature Date

Rev 9/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APP	LICATION AGREEMEN	I - BIOSOLIDS AND	INDUSTRIAL RESIDUALS	
here as "Landowner", and sterminated in writing by eith event of a sale of one or midentified in this agreement	<u>Synagro,</u> referred to here as ner party or, with respect to ore parcels, until ownership	s the "Permittee". This a those parcels that are re of all parcels changes. which ownership has ch	greement remains in effect until it is tained by the Landowner in the If ownership of individual parcels hanged will no longer be authorized	
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real proper or reclamation sites identif	erty located in Ling b ied below in Table 1 and	identified on the tax map(s)	
Table 1.: Parcels aut	horized to receive biosolids	s, water treatment residu	als or other industrial sludges	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	
55-40	55-33	STOW		
55-42	55-43A			
55-43	55-40 A			
55-45	55-408			
55-46	55-40C			
Additional parcels containing Lan	nd Application Sites are identified of	on Supplement A (check if appl	icable)	
In the event that the Lando within 38 months of the late 1. Notify the purchase later than the date 2. Notify the Permittee The Landowner has no oth	est date of biosolids applica er or transferee of the applic of the property transfer; and e of the sale within two wee er agreements for land app	tiple owners of the property to we tion, the Landowner shat cable public access and the following property traction on the fields identification on the fields id	rties identified herein. which biosolids have been applied ll: crop management restrictions no nsfer. htified herein. The Landowner will	
for application or any part of incorrect. The Landowner hereby gra agricultural sites identified a inspections on the land identified and id	of this agreement becomes into the Permiabove and in Exhibit A. The ntified above, before, during	invalid or the information ittee to land apply residu e Landowner also grants g or after land application	als as specified below, on the permitted permission for DEQ staff to conduct of permitted residuals for the	
purpose of determining con			• •	
Class B biosolids Wate X Yes □ No X Ye		Food processing waste X Yes No	Other industrial sludges X Yes □ No	
Edgresca FG. Landowner - Printed Name, Title	mysle K	Manager	400 Chagos Lang Mailing Address Will Hoursburg	
	and in amounts not to exceed	I the rates identified in the r	downer's land in the manner authorized outrient management plan prepared for code of Virginia.	
			osed schedule for land application and ude the source of residuals to be applied.	
☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)				
D. Steve Man	Pahon D. Ster	millal	10647 Tidewater Trail Champlain, VA 22438	
Permittee – Authorized Represe Printed Name		,	Mailing Address	

Rev 9/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro	_County or City:	Line	William	~
Landowner: E Edgewood Farms L		J		

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
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- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45/pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

5-27-13

Date

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS				
A. This land application agreement is made on 3-27-13 between Hendelon Pedantil referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.				
Landowner: The Landowner is the owner of record of the real property located in King William, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.				
Table 1.: Parcels aut	horized to receive biosolids, w	ater treatment residuals or	other industrial sludges	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	
56-1-11	63 AZ-1-ZZ			
55-17	63A2-1-22A			
55-16	103A2-1-22B			
55-33B				
55-32A		,		
	d Application Sites are identified on S	Supplement A (check if applicable)		
Check one:	e Landowner is the sole owne	r of the properties identified	herein.	
Company and the second	e Landowner is one of multiple			
In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall: 1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and 2. Notify the Permittee of the sale within two weeks following property transfer. The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.				
The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.				
Class B biosolids Wate X Yes ☐ No X Ye			<u>ther industrial sludges</u> Yes □ No	
Landowner - Printed Name, Title Signature Mailing Address Wy Landowner - Vinted Name, Title Signature Mailing Address Wy Landownship Va				
Permittee: Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.				
The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.				
☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)				
D. Steve Wedlahow W. Stew Wedlah 10647 Tidewater Trail Champlain, VA 22438				
Permittee – Authorized Representative Signature Mailing Address Printed Name				

Rev 9/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro

Landowner: Henderson Residential UC

County or City: King William

Landowner: Henderson Residential UC

Landowner Site Management Requirements:

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- Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Rev 9/14/2012

Date

Tax ID Landowner Identification Sheet

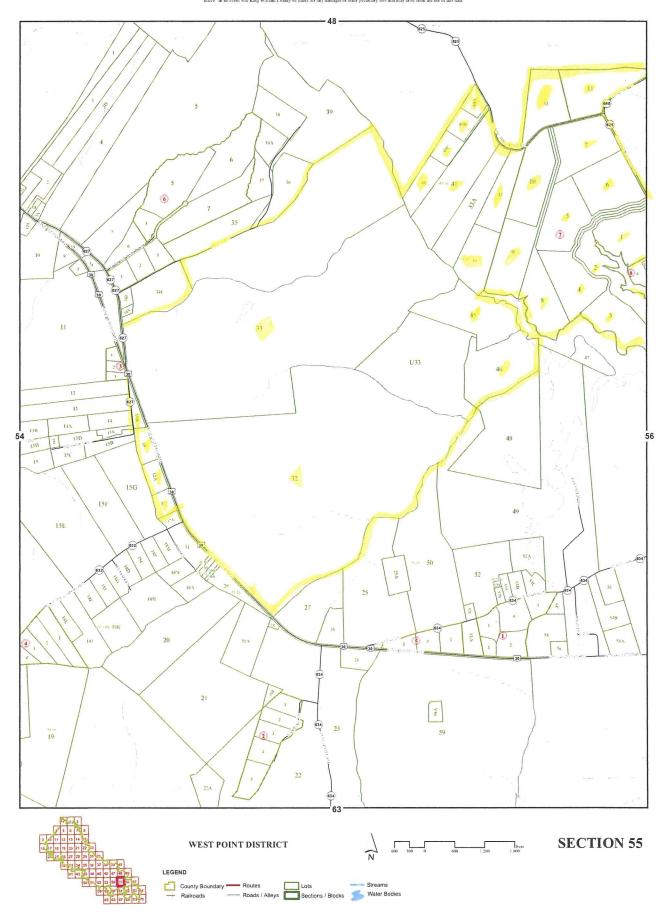
Landowner	Field #	Tax ID
Edgewood Farms	19-7	55-33
Edgewood Farms	19-8	55-33
Edgewood Farms	19-9	55-33
Edgewood Farms	19-10	55-33
Peter Henderson	19-11	55-32
Edgewood Farms/Peter Henderson/		
Henderson Residential LLC	19-12	55-32, 55-33, 55-45, 55-42, 55-43,
		55-44, 55-46, 55-48
Edgewood Farms/Peter Henderson/		
Henderson Residential LLC	19-13	55-32, 55-33
Peter Henderson	19-14	55-32
Peter Henderson	19-15	55-32

Field #	Latitude (north)	Longitude (west)
19-7	37°36'20.31"	76°54'25.73"
19-8	37°36'29.39"	76°54'14.87"
19-9	37°36'31.73"	76°54'02.54"
19-10	37°36'37.47"	76°53'39.68"
19-11	37°36'17.25"	76°53'39.09"
19-12	37°36'26.46"	76°53'20.24"
19-13	37°37'03.01"	76°52'47.28"
19-14	37°36'00.28"	76°54'12.47"
19-15	37°35'46.13"	76°53'57.88"

KING WILLIAM COUNTY

Last Updated April 2013

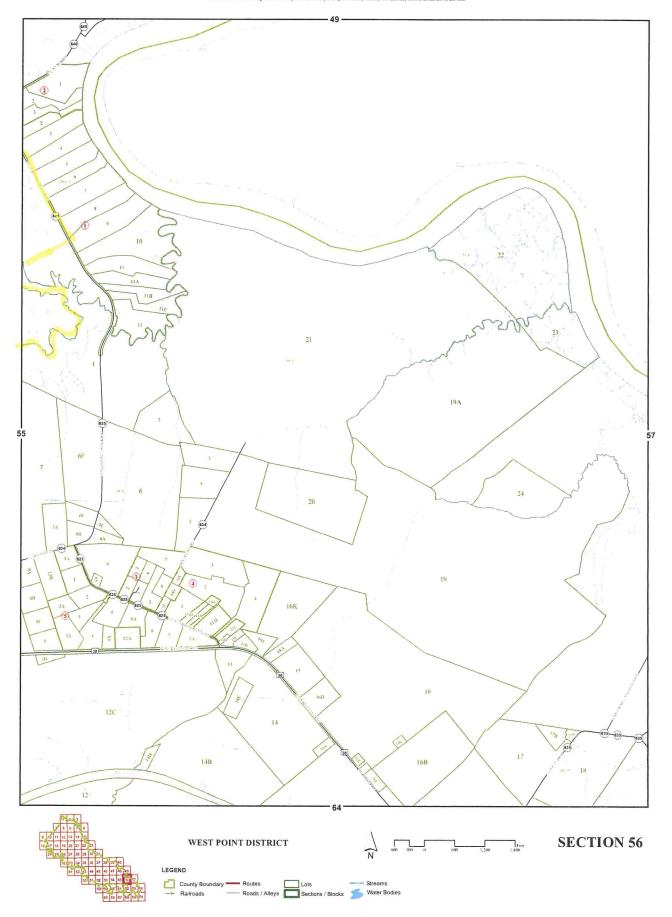
Map information is believed to be accurate, but accuracy is not guaranteed. Any errors or omissions should be reported to the Commissioner of Revenue's office. In no event will King William County be liable for any damages or other pecuniary loss that may arise from the use of this data.



KING WILLIAM COUNTY

Last Updated April 2013

Map information is believed to be accurate, but accuracy is not guaranteed. Any errors or omissions should be reported to the Commissioner of Revent office. In no event will King William County be liable for any damages or other necuniary loss that may arise from the use of this data



MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary

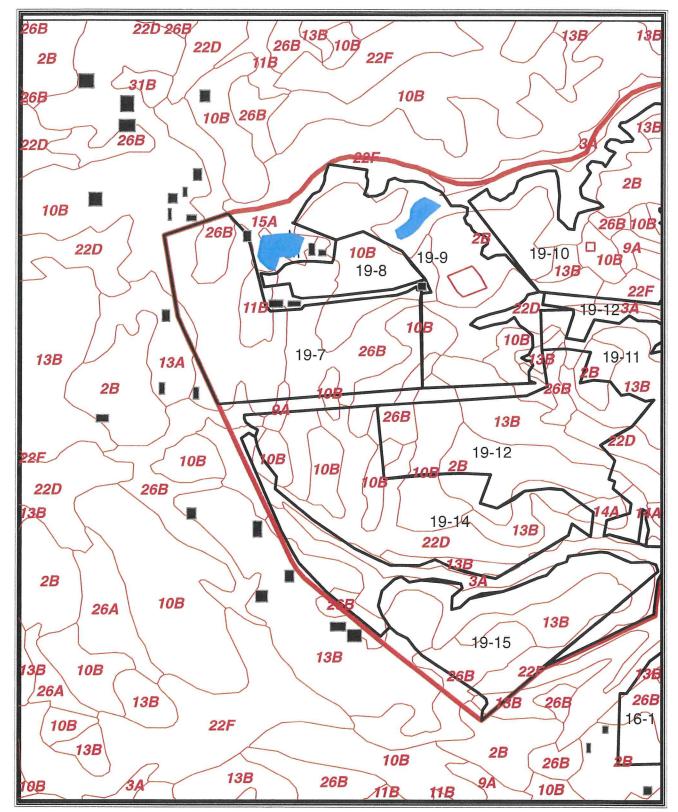


Property Line





Pete Henderson KW 19 (Fields 7-9, 14, 15)



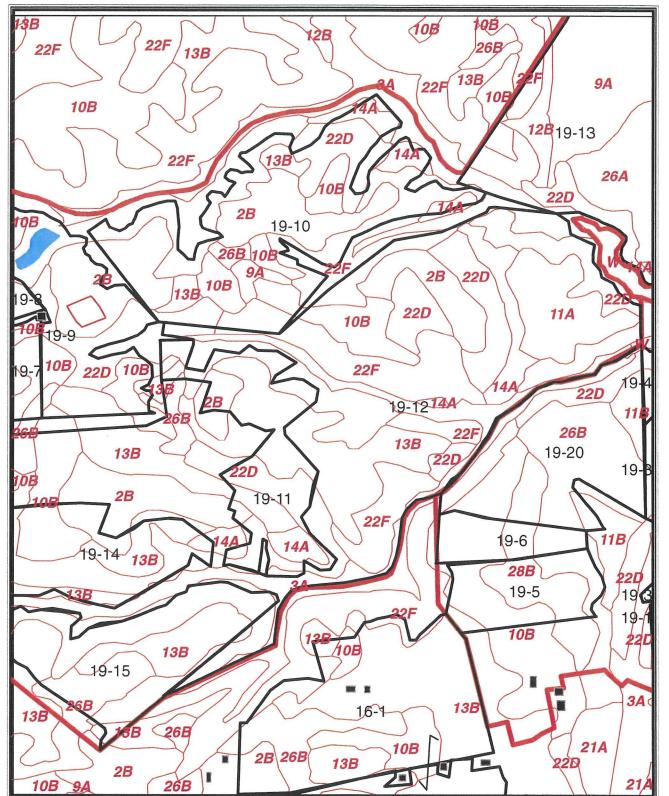




1:14,000



Pete Henderson KW 19 (Fields 10 - 12)

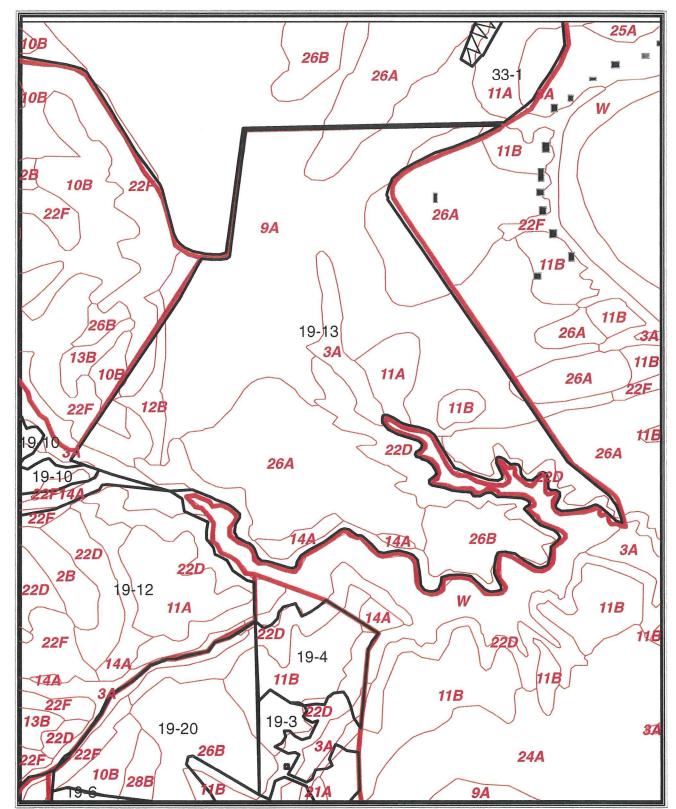




 $1 \text{ inch} = 1,166.666667 feet}$



Pete Henderson KW 19 (Fields 13)

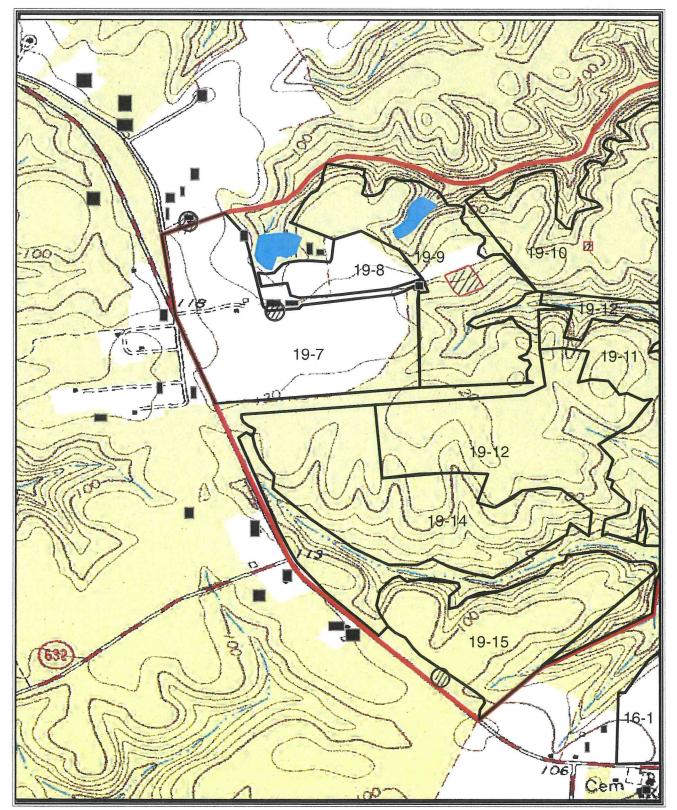




 $1 \text{ inch} = 1,166.666667 feet}$



Pete Henderson KW 19 (Fields 7-9, 14, 15)



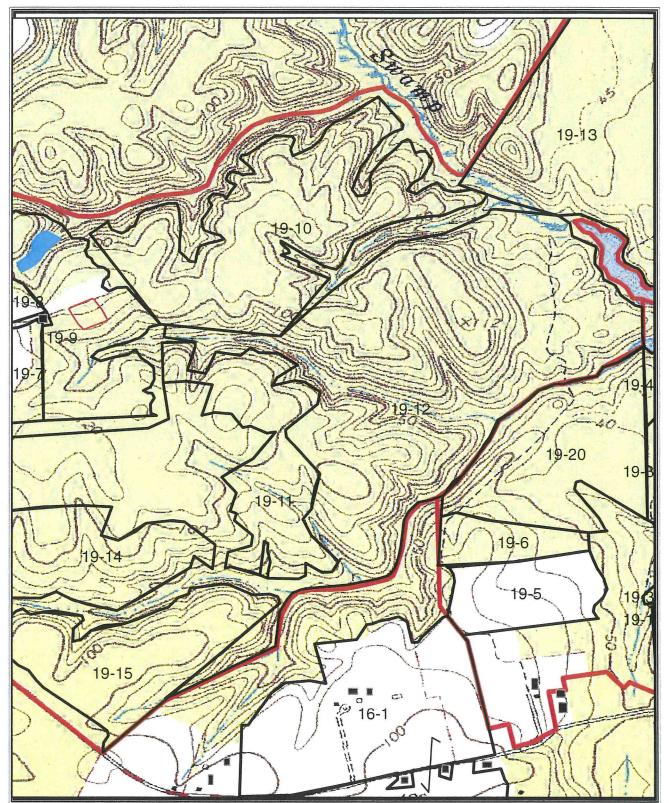




1:14,000



Pete Henderson KW 19 (Fields 10 - 12)

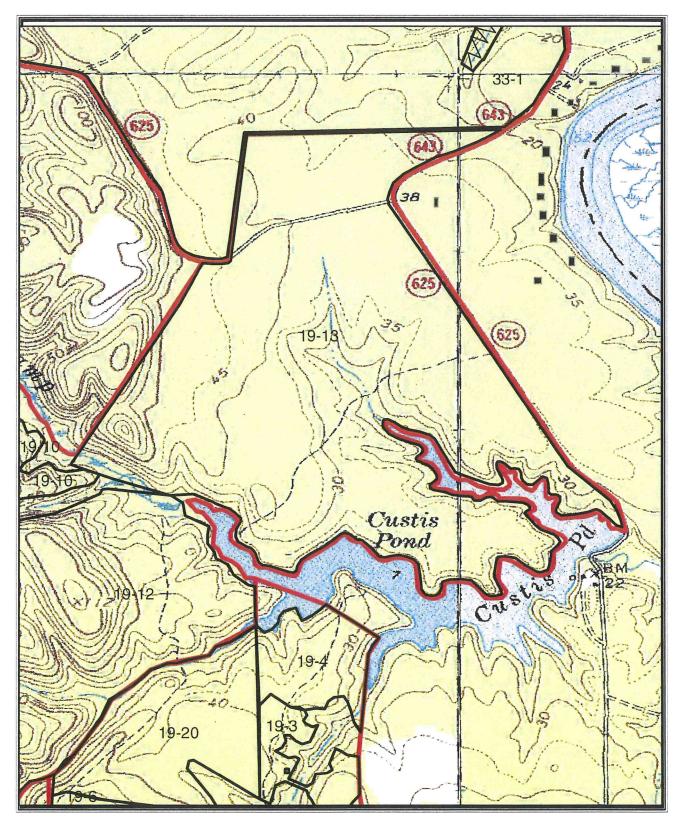




1 inch = 1,166.66667 feet



Pete Henderson KW 19 (Fields 13)

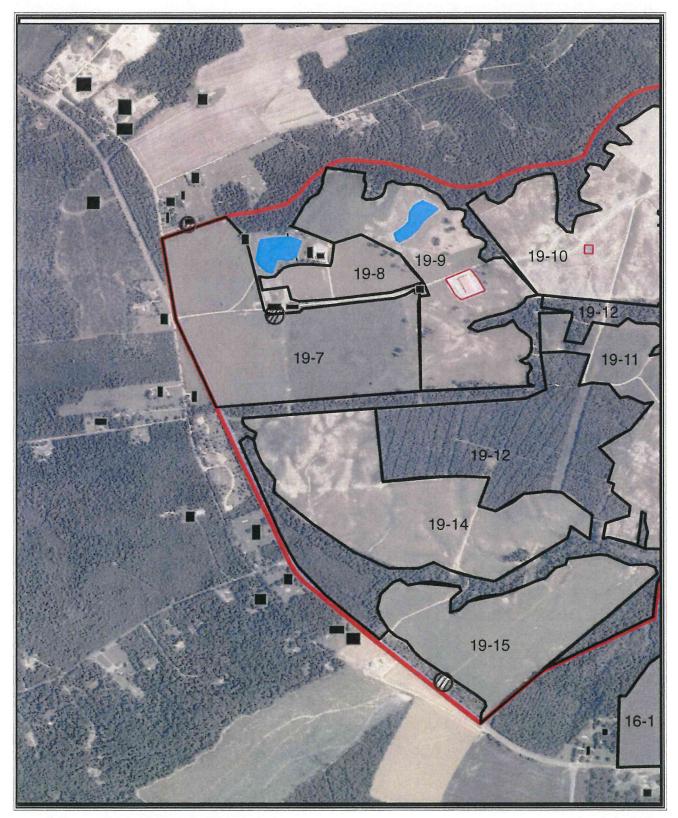




 $1 \text{ inch} = 1,166.666667 feet}$



Pete Henderson KW 19 (Fields 7-9, 14, 15)

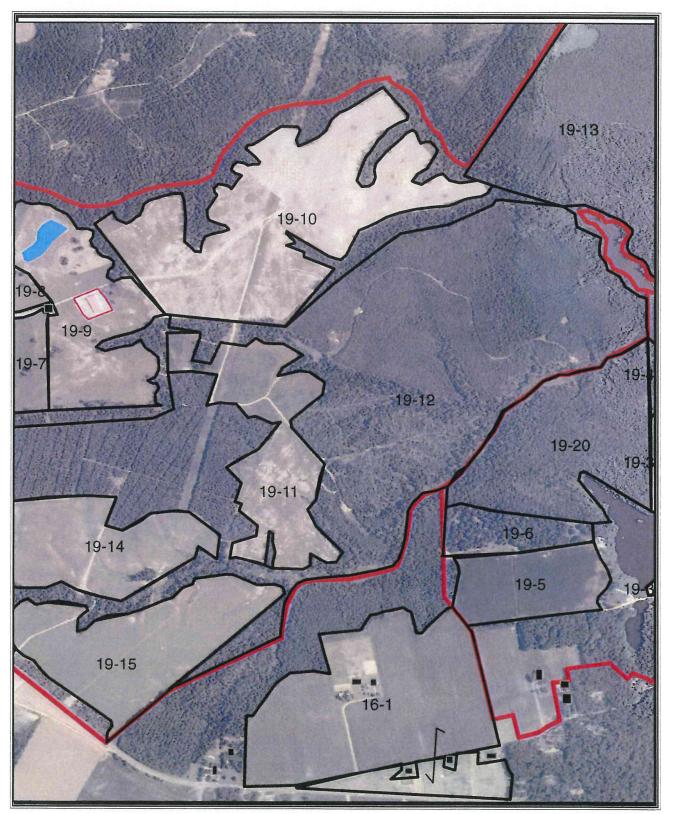




1 inch = 1,166.66667 feet



Pete Henderson KW 19 (Fields 10 - 12)

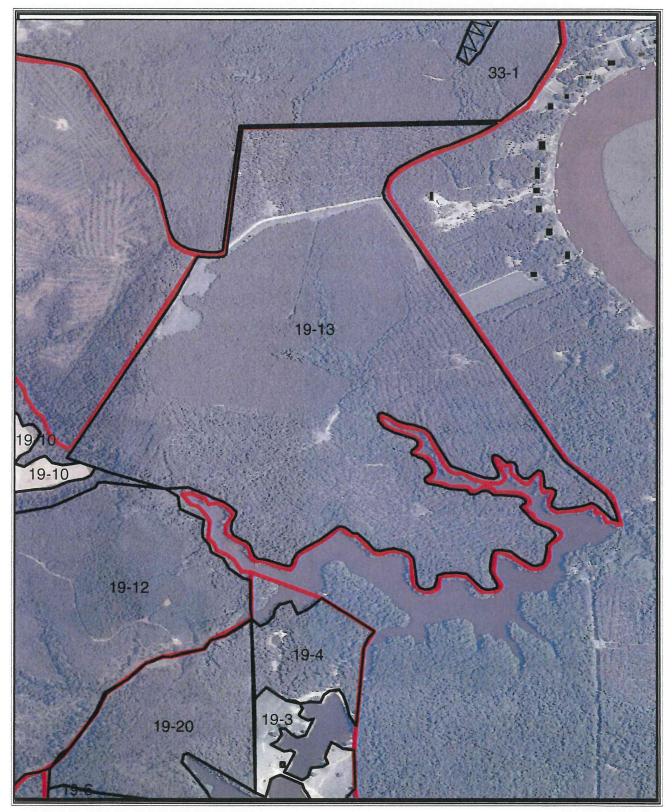




 $1 \text{ inch} = 1,166.666667 feet}$



Pete Henderson KW 19 (Fields 13)

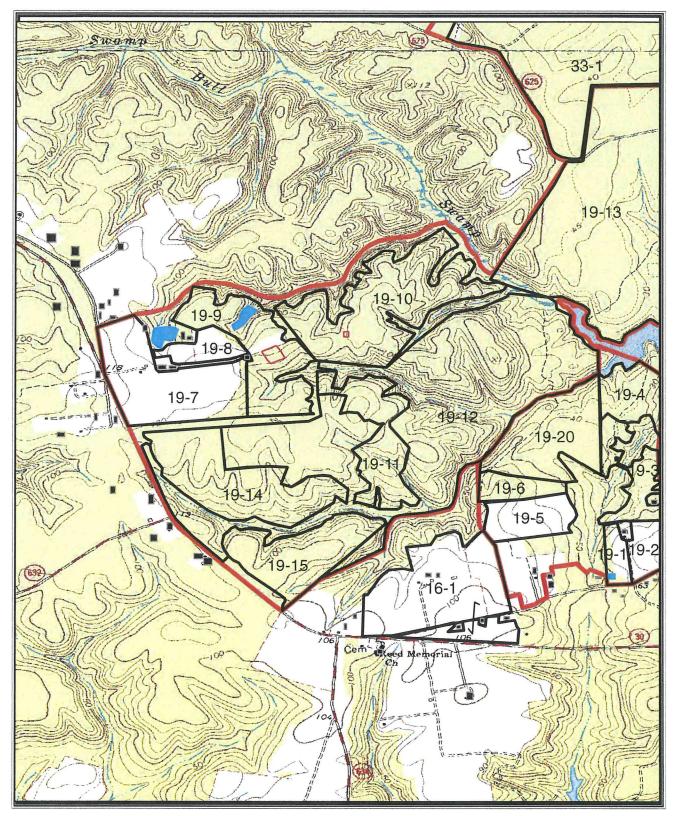




1 inch = 1,166.66667 feet



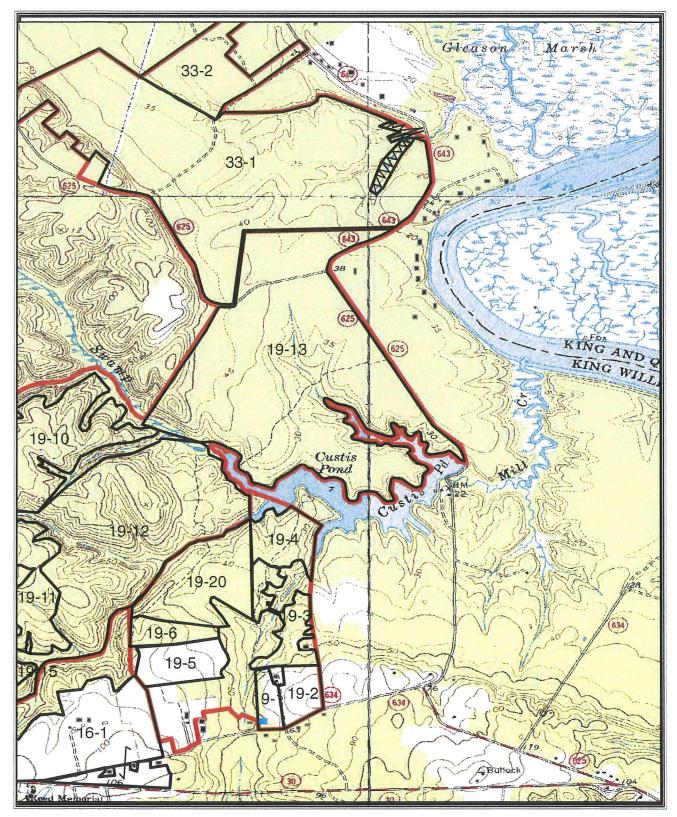
Pete Henderson KW 19 (Fields 7-12, 14,15)







Pete Henderson KW 19 (Fields13)





1 inch = 2,000 feet



A Residuals Management Company

